CLAIMS

1. A hob with a hotplate (7), under which at least one induction mechanism (23) is arranged, which is arranged in a housing (1), which housing (1) has a housing floor (3) and vertically projecting lateral walls (5) connected to the hotplate (7), which delimit a housing interior (9), in which the induction mechanism (23) is arranged, characterised in that at least a partial region of the housing floor (3) is designed as a monobloc plastic profile part (2).

2. The hob as claimed in Claim 2, characterised in that the plastic profile part (2) hob bears components of the induction mechanism (23).

3. The hob as claimed in Claim 1 or 2, characterised in that the plastic profile part (2) is connected to a hob frame (4).

4. The hob as claimed in any one of the preceding claims, characterised in that the housing (1) is designed as the monobloc plastic profile part (2).

5. The hob as claimed in any one of the preceding claims, characterised in that the shaping and/or material thickness of the plastic profile part (2) varies and is adapted according to the respective functional requirements.

6. The hob as claimed in any one of the preceding claims, characterised in that at least one functional element (11, 19, 35, 47, 57) is designed monobloc on the plastic profile part (2) for reducing the number of components.

7. The hob as claimed in Claim 6, characterised in that the functional element (35) is connected monobloc via a nominal point of separation (37) to the plastic profile part (2).

8. The hob as claimed in Claim 7, characterised in that after separation of the functional element (35) at the nominal point of separation (37) the functional element (35) is mounted ready for use as a separate component on the housing (1), preferably clamped and/or screwed.

9. The hob as claimed in any one of Claims 6 to 8, characterised in that the functional element (19, 47) is designed as a locking element, with which at least one hob component, such as an induction mechanism carrier (21), a cool-air fan (55) or an electronic control unit (43), is attached detachably in the housing (1).

10. The hob as claimed in Claim 9, characterised in that the locking element (19, 47) has a ramp inclination (34), along which the hob component is guided into a locked connection with the locking element.

11. The hob as claimed in any one of Claims 9 or 10, characterised in that the locking element (19, 47, 59, 65, 66,67, 68) is connected to the housing (1) via a spring-elastic connecting leg (30).

12. The hob as claimed in any one of Claims 9 to 11, characterised in that a lateral stop (33), which is in contact with the induction mechanism carrier (21) for localised mounting of the induction mechanism carrier (21) parallel to the hotplate (7), is designed on the locking element (19, 47).

13. The hob as claimed in any one of Claims 9 to 12, characterised in that the locking element (19, 47) has a height stop (31), by which the height position of the hob components is fixed in the housing (1).

14. The hob as claimed in Claim 13, characterised in that the locking element (19) is assigned a compression spring (29), which presses the induction mechanism carrier (21) against the height stop (31) with a spring force directed to the hotplate (7).

15. The hob as claimed in Claim 14, characterised in that when the hotplate (7) is disassembled the induction mechanism carrier (21) is pressed against the height stop (31) by means of the compression spring (29) into an assembly position (I).

16. The hob as claimed in any one of Claims 14 or 15, characterised in that when the hotplate (7) is assembled the hotplate (7) presses the induction mechanism carrier (21) into an operating position (II) under the assembly position (I).

17. The hob as claimed in any one of Claims 12 to 16, characterised in that the lateral stop (33) of the locking element (19) vertically guides the induction mechanism carrier (21) when shifted between the assembly position (I) and the operating position (II) or respectively during assembly or disassembly.

18. The hob as claimed in any one of Claims 6 to 17, characterised in that the functional element is

designed as a bearing element (11) for mounting the hob in a work surface section.

19. The hob as claimed in any one of Claims 6 to 17, characterised in that the functional element is designed as a bulkhead (57) for a cool-air flow.

20. The hob as claimed in any one of Claims 6 to 17, characterised in that the functional element as a strain relief (60, 61, 62) for cables (41, 42) is designed.

21. The hob as claimed in any one of the preceding Claims, characterised in that the hob is a mixed hob.